

Experimental observation of the spin screening effect in superconductor/ferromagnet thin film heterostructures

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Abstract

When studying the nuclear magnetic resonance (NMR) of ^{51}V nuclei in superconductor/ferromagnet thin film heterostructures, anomalous behavior of the NMR signal was observed. This effect was manifested as a systematic distortion of the high-field wing of the resonance line. We consider this to be the first experimental evidence for penetration of ferromagnetism into a superconductor. © 2010 Allerton Press, Inc.

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